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P. O. Box 6788
Fort Davis Station
Washington, D. C. 20020

Attention:

Reference:

Subject: 35th Monthly Letter Report

Gentlemen:

In accordance with the above-referenced contract, the 35th Monthly Letter Report for the month of May 1967 is submitted herewith.

Yours truly,

INFORMATION SYSTEMS
MARKETING AND PLANNING DEPARTMENT

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Contract Administrator

WK:ks

Enc: one (1) to Contracting Officer
✓ four (4) directly to Technical Monitor

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CONTACT DUPLICATING AND RESEAU PRINTER

AND

HIGH RESOLUTION STEP AND REPEAT PRINTER

THIRTY-FIFTH MONTHLY LETTER REPORT

June 10, 1967

Period: May 1, 1967 to May 31, 1967



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1.0 CONTACT DUPLICATING AND RESEAU PRINTER

1.1 Purpose

The overall objective of the current contract is the design, fabrication, test and delivery of a photographic step and repeat Contact Duplicating and Reseau Printer. Prime design goals are high-speed automatic operation, variable format capability, and high resolution with minimum film distortion or damage. The delivered equipment will accommodate films of 70mm to 9½" width with frame lengths up to 30 inches and will provide operation in the Reseau mode and selective mode as options.

1.2 Activity of this Report Period

Government approval was received on May 11, 1967 for additional Printer modifications which had been previously proposed. These modifications involve rework of the lamp/photocell printed circuit boards, modifying the aperture plate for photocells, updating the Operations Manual, and providing a Customer Training Program.

The new aperture plate has been fabricated, polished, and installed. Photocell current readings are underway to determine proper resistor and capacitor values for the printed circuit boards.

The printed circuit boards have been modified and are now ready for completion subject to the aforementioned calibrations and subject to delivery of electrical components.

The Operations Manual has been corrected and updated, and is in the final stages of editing. Copies will be available for the Training Course.

The Training Course has been reviewed and is scheduled for July 10-14, 1967.

Satisfactory results have been obtained from the Pre-View & Punch Station and a number of improvements made to ease operation and calibration.

On May 23, 1967 a meeting was held with the Government monitors to review progress on the modification program and to discuss the Pre-View and Punch Station. Two verbal proposals were made to improve the present Pre-View & Punch Station and/or to completely redesign and rebuild the accessory. Both proposals are being held in abeyance subject to results of the Acceptance Tests.

1.3 Plans for Next Report Period

Prepare Reseau prints and punch on Pre-View & Punch Station for analysis by monitors.

Complete resolution tests over platen area using Government-furnished target.

Complete printed-circuit boards and calibrate in Printer. Test Printer for anticipated improvement in latitude of Automatic Exposure Control system.

Prepare for in-plant pre-Acceptance Tests.

Publish Operations Manual for use in Customer Training Program.

1.4 Problems

While satisfactory results have been achieved with the Pre-View & Punch Station, there appears to be a problem of consistency of results. Day-by-day records are being kept to determine reliability of punching accuracy to ± 5 microns.

Delayed delivery of capacitors for the printed circuit boards has postponed the completion of the Printer by 3 weeks.

1.5 Documentation

Authorization for additional modifications to the Printer has been received.

1.6 Questions Outstanding

Samples of stable-base Estar film are expected from the Government on which to make Reseau prints for punching and measurement.

2.0 High Resolution Step and Repeat Printer

2.1 Purpose

The purpose of this effort is to design, fabricate, test and deliver in twenty months a high precision step and repeat, photographic contact printer. This printer will be capable of producing photographic contact prints of the highest possible quality, resolution, and acutance from roll film of widths varying from 70mm to 9½" and in pre-selected frame lengths from 5 inches up to a maximum of 30 inches.

2.2 Activity of this Report Period

There was no activity this month. The Stop-work period expired 11 January 66. is still awaiting Government direction.

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2.3 Documentation

A list of non-expendable Government property was submitted to for verification. All items were accounted for except for P. O. #50625, Film Viewer. Verbal reports were given to the technical monitor.

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